

MAGNAFLUX CORPORATION -- ZL-22D ZYGLO PENETRANT -- 6850-01-263-8221
===== Product Identification =====

Product ID:ZL-22D ZYGLO PENETRANT
MSDS Date:11/17/1986
FSC:6850
NIIN:01-263-8221
Kit Part:Y
MSDS Number: BGRNZ
=== Responsible Party ===
Company Name:MAGNAFLUX CORPORATION
Address:7300 W. LAWRENCE AVENUE
City:CHICAGO
State:IL
ZIP:60656-3504
Country:US
Info Phone Num:312-867-8000
Emergency Phone Num:312-867-8000
Preparer's Name:BRUCE C. GRAHAM
CAGE:37676
=== Contractor Identification ===
Company Name:ILLINOIS TOOL WORKS INC MAGNAFLUX DIV
Address:3624 WEST LAKE AVENUE
Box:City:GLENVIEW
State:IL
ZIP:60025
Country:US
Phone:847-657-5300/
CAGE:37676

===== Composition/Information on Ingredients =====

Ingred Name:DISTILLATES,(PETROLEUM)HYDROTREATED MIDDLE
CAS:64742-46-7
RTECS #:JN9379645
Fraction by Wt: 25.0%

Ingred Name:KEROSENE
CAS:8008-20-6
RTECS #:OA5500000
Fraction by

Wt: 10.0%
ACGIH TLV:100MG/CUM

Ingred Name:DISTILATES(PETROLEUM),CATALYTIC REFORMER FRACTIONATER
RESIDUE,LOW BOILING
CAS:68477-31-6
Fraction by Wt: 20.0%

Ingred Name:UNIDENTIFIED COMPONENTS
Fraction by Wt: 45.0%

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Hazards Identification
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Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE:IRRITATES EYES,MILDLY.
Effects of Overexposure:INHALATION:SPRAY MIST MAY IRRITATE TO BREATHING
PASSAGES; EYES:LIQUID
CONTACT MAY CAUSE IRRITATION; SKIN:SOLVENT IN
THE PRODUCT MAY IRRITATE SKIN; INGESTION:NOT NOTED BY MANUFACTURER.
Medical Cond Aggravated by Exposure:NOT STATED BY MANUFACTURER.

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First Aid Measures
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First Aid:INHALATION:REMOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,GIVE
OXYGEN; SKIN:REMOVE CONTAMINATED CLOTHES.WASH OFF WITH FLOWING
WATER.USE SOOTHING LOTION.IF IRRITATION PERSISTS,GET MEDICAL ATTN;
EYES:IMM EDIATELY RINSE/FLUSH WI
TH COPIOUS AMOUNT OF RUNNING
WATER,AND GET MEDICAL ATTENTION.

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Fire Fighting Measures
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Flash Point Method:PMCC
Flash Point:>200F/>93C
Extinguishing Media:CARBON DIOXIDE,FOAM.
Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY.DO NOT
SPRAY ON BURNING PRODUCT.
Unusual Fire/Explosion Hazard:WHEN INVOLVE IN COMBUSTION,MAY EMIT TOXIC
GASES AT OR ABOVE DECOMPOSITION TEMPERATURE.

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Accidental Release Measures
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Spill Release Procedures:REMOVE IGNITION SOURCES.SM QTY:WIPE UP OR MOP UP BUT DO NOT BREATHE VAPORS.PLACE RAGS IN CLOSED DRUMS; LG QTY:WEAR PERSONAL SAFETY EQUIPMENTS.DIKE AREA FAR AHEAD.ABSORB LIQUID WITH COMMERCIAL ABSORBENT.T.TRANSFER WASTE MATL IN SALVAGE TANKS.

===== Handling and Storage =====

Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCES IN WELL VENTILATED AREA.AVOID AGAINST PHYSICAL DAMAGE TO CONTAINER S.KEEP CONTAINERS TIGHTLY CLOSED.

Other Precautions:DO NOT BREATHE VAPORS.DO NOT SMOKE WHILE USING.DO NOT HEAT ABOVE 130F(54C).AVOID FREQUENT OR PROLONGED SKIN CONTACT.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR A RESPIRATOR WITH CHEMICAL CARTRIDGE. IN CONFINED AREAS,WEAR A FULL MASK WITH SEPARATE AIR SUPPLY.

Ventilation:GENERAL VENTILATION TO KEEP BELOW 350PPM LIMIT.

Protective Gloves:NITRILE RUBBER GLOVES.

Eye Protection:FULL GOGGLES.WHEN SPRAYING OR POURING.

Other Protective Equipment:EITHER USE IN A SPRAY BOOTH OR NEXT TO AN EXHAUST VENT.

Work Hygienic Practices:WASH OFF PROMPTLY WITH WATER.AVOID SKIN CONTACT.

Supplemental Safety and Health

PER QPL-25135-15 OR MIL-I-25135D,THE SET MAY CONSIST OF ZL-22D OR ZL-27A PENETRANT AND ZE-3 OR ZE-4B EMULSIFIER UNDR TYPE I METHOD B,LEVEL 3;THIS NSN HAS 2 PARTS IN THE SET;THESE EMULSIFIERS & PENETRANTS ARE ALSO QUALIFIED PRODUCTS OF OTHER TYPES, METHOD & LEVELS.SEE THE QPL;THIS ENTRY OF ZL-22D PENETRANT;KEY1:N1.

===== Physical/Chemical Properties =====

HCC:N1

Boiling Pt:B.P. Text:410F/210C

Vapor Pres:0.5 @100F

Vapor Density:>1.0

Spec Gravity:0.95

Solubility in Water:NEGLIGIBLE

Appearance and Odor:GREEN LIQUID WITH PETROLEUM DISTILLATE ODOR.

Percent Volatiles by Volume:5.0%

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

MFR STATED "NONE".

Stability Cond

ition to Avoid:HEAT,HIGH TEMPERATURES.

Hazardous Decomposition Products:EMITS OXIDES OF CARBON AND NITROGEN ON COMBUSTION.

===== Disposal Considerations =====

Waste Disposal Methods:INCINERATE OR DISPOSE OF AS EPA HAZARDOUS WASTE D001 (IGNITABLE WASTE),IN ACCORDANCE WITH ALL APPLICABLE FEDERAL,STATE,LOCAL REGULATIONS;IF LOCAL AUTHORIES PROHIBIT DUMPING RINSINGS DOWN THE SEWER,PUR IFY RINSINGS W/MAGNAFLUX WASTEWATER TREATMNT SYSTM

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